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US Patents Full-Text Database  
US OCR Full-Text Database  
EPO Abstracts Database  
JPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

**Search:**

L5

### Search History

**DATE:** Saturday, August 14, 2004 [Printable Copy](#) [Create Case](#)

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result set

*DB=EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR*

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<u>L3</u>	L2 and ("point-of-interest" or "point of interest")	0	<u>L3</u>
<u>L2</u>	L1 and route and map\$ and destination	414	<u>L2</u>
<u>L1</u>	vehicle and navigation and (poi or point\$ or exit)	3194	<u>L1</u>

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LS: Entry 1 of 7

File: JPAB

Aug 6, 1999

PUB-NO: JP411213283A

DOCUMENT-IDENTIFIER: JP 11213283 A

TITLE: NAVIGATION DEVICE

PUBN-DATE: August 6, 1999

## INVENTOR-INFORMATION:

NAME

COUNTRY

MATSUMURA, KAZUMASA

## ASSIGNEE-INFORMATION:

NAME

COUNTRY

FUJITSU TEN LTD

APPL-NO: JP10015863

APPL-DATE: January 28, 1998

INT-CL (IPC): G08 G 1/00; G01 C 21/00; G01 S 13/93; G01 S 17/93; G08 G 1/0969

## ABSTRACT:

PROBLEM TO BE SOLVED: To perform the search of an appropriate route or the like by stored information by detecting and storing the position of an obstacle where a vehicle can not pass through.

SOLUTION: Whether or not obstacle signals are detected by a radar device 9 is judged, and at the time of judging that the obstacle is present, a distance to the obstacle is computed from signals from the radar device 9 and the position of the obstacle on a map is computed based on a vehicle position at the present point of time decided from the signals from a GPS device, a car speed sensor and a bearing sensor, the calculated distance L to the obstacle and bearing data from the bearing sensor. The computed position of the obstacle is stored in a storage part 6 and whether or not the obstacle is present on a traveling route to a destination searched by this navigation device is judged from the calculated position of the obstacle. Then, at the time of judging that it is on the route, alarm signals are outputted to an acoustic device 10, alarm sound is generated and an alarm is displayed at a display part 8 simultaneously.

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L5: Entry 2 of 7

File: EPAB

Jan 2, 1997

PUB-NO: EP000751376A2

DOCUMENT-IDENTIFIER: EP 751376 A2

TITLE: Vehicular navigation apparatus

PUBN-DATE: January 2, 1997

## INVENTOR-INFORMATION:

NAME	COUNTRY
HAYASIDA, KIHACHI	JP
YANAGIKUBO, TAKESHI	JP

## ASSIGNEE-INFORMATION:

NAME	COUNTRY
AISIN AW CO	JP

APPL-NO: EP96110401

APPL-DATE: June 27, 1996

PRIORITY-DATA: JP16167995A (June 28, 1995)

INT-CL (IPC): G01 C 21/20  
EUR-CL (EPC): G01C021/34

## ABSTRACT:

CHG DATE=19990617 STATUS=0> A navigation apparatus has: a current position detecting device for detecting current position of a vehicle in which the device is installed; an information storing device for storing map information and other route information for route search and route guidance; an input device for inputting instructions; an output device for outputting information for route guidance; and a central processing device. The central processing device has route searching means for searching for a route from the current position to a destination or a passing point on the basis of the map information, route storing means for temporarily storing the route found by the route searching means, and route guidance control means for outputting to the output device a signal for executing route guidance based on the route. The apparatus determines a location on a road located a predetermined distance ahead in the travel direction from the current position, as a search starting location or as a route guidance starting

 location.[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)

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L5: Entry 3 of 7

File: EPAB

Mar 20, 1996

PUB-NO: EP000702209A1

DOCUMENT-IDENTIFIER: EP 702209 A1

TITLE: Vehicular navigation system

PUBN-DATE: March 20, 1996

## INVENTOR-INFORMATION:

NAME	COUNTRY
NIMURA, MITUSHIRO	JP
NANBA, AKIMASA	JP
MAEKAWA, KAZUTERU	JP

## ASSIGNEE-INFORMATION:

NAME	COUNTRY
AISIN AW CO	JP

APPL-NO: EP95114237

APPL-DATE: September 11, 1995

PRIORITY-DATA: JP24729394A (September 14, 1994), JP26458494A (October 3, 1994)

INT-CL (IPC): G01 C 21/20

EUR-CL (EPC): G01C021/34

## ABSTRACT:

CHG DATE=19990617 STATUS=O> A vehicular navigation system includes a central control unit which determines when a present position deviates from a searched route along which guidance is being provided from a starting point to a destination and determines whether or not the detected deviating present position is on a guidable road prior to re-researching the route and providing guidance based upon the re-researched route. A guidable road is a road upon which the navigation system contains sufficient map information and guide information for the navigation system to search a route and provide guidance. Additionally, system determines whether the vehicle has traveled a predetermined distance after re-search of the route prior to providing travel guidance based upon the re-researched route. Otherwise travel guidance continues to be provided based upon the previously searched route. A driver, after making a short deviation, may thus return to the previous route

without travel guidance being interrupted by a re-researched route.

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L5: Entry 4 of 7

File: DWPI

Jul 6, 2001

DERWENT-ACC-NO: 2002-181671

DERWENT-WEEK: 200224

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**TITLE:** Route display method for vehicle navigation device, involves determining distance of route from starting point to destination and displaying route map with linked external data stored in compact flash memory

PATENT-ASSIGNEE: ENPEX KISHOKEI KK (ENPEN)

PRIORITY-DATA: 1999JP-0365394 (December 22, 1999)

 [Search Selected](#) [Search All](#) [Clear](#)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <a href="#">JP 2001183152 A</a>	July 6, 2001		016	G01C021/00

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP2001183152A	December 22, 1999	1999JP-0365394	

**INT-CL (IPC):** G01 C 21/00; G01 S 5/14; G06 F 17/30; G08 G 1/0969; G09 B 29/00; G09 B 29/10; H04 B 7/26; H04 Q 7/38

ABSTRACTED-PUB-NO: JP2001183152A

## BASIC-ABSTRACT:

**NOVELTY** - The present position of vehicle in external map data is searched in a folder based on input global positioning system (GPS) signal based on which distance of route from the starting point to the destination is determined and route map is displayed, along with external data stored in compact flash memory.

**DETAILED DESCRIPTION** - An INDEPENDENT CLAIM is also included for navigation device.

**USE** - For displaying route along with external map data such as weather information, companion position in vehicle navigation device (claimed).

**ADVANTAGE** - The external data is also utilized for route search display. Hence efficiency is improved.

**DESCRIPTION OF DRAWING(S)** - The figure shows the flowchart explaining method of displaying route in navigation device. (Drawing includes non-English language text).

ABSTRACTED-PUB-NO: JP2001183152A

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e ge

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg. 1/10

DERWENT-CLASS: P85 S02 T01 W01 W06 X22

EPI-CODES: S02-B08C; S02-B08E; S02-K04C; T01-J07D3A; W01-C05B5C; W06-A08; X22-E06B;

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L5: Entry 5 of 7

File: DWPI

Apr 20, 2001

DERWENT-ACC-NO: 2001-505217

DERWENT-WEEK: 200156

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**TITLE:** Route planning apparatus for motor vehicles, displays route such that starting and terminus points of route are connected by lines through arbitrary relay points

PATENT-ASSIGNEE: MARUCHI SYSTEMS KK (MARUN)

PRIORITY-DATA: 1999JP-0289118 (October 12, 1999)

 [Search Selected](#)  [Search All](#)  [Clear](#)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <a href="#">JP 2001108456 A</a>	April 20, 2001		013	G01C021/00

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP2001108456A	October 12, 1999	1999JP-0289118	

INT-CL (IPC): G01 C 21/00; G06 F 17/30; G08 G 1/0969; G09 B 29/00; G09 B 29/10

ABSTRACTED-PUB-NO: JP2001108456A

BASIC-ABSTRACT:

NOVELTY - The route planning apparatus searches map data stored beforehand, for the route which connects arbitrary starting and terminus points. A route display unit (3) displays the route, such that starting point and terminus point of the route are connected by lines through arbitrary relay points.

DETAILED DESCRIPTION - A route calculation unit computes the direction and the distance of route which connects starting and terminus points through arbitrary points based on co-ordinate data. A route patterning unit points the computed route on the display unit, at predetermined rate of a contraction scale. INDEPENDENT CLAIMS are also included for the following:

- (a) Route planning procedure;
- (b) Memory medium storing route planning program

USE - Route planning apparatus of navigation apparatus mounted in motor vehicle.ADVANTAGE - Sets short distance path between starting point to destination through relay point easily.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of route planning apparatus. (The drawing includes non-English language text).

Route display unit 3

ABSTRACTED-PUB-NO: JP2001108456A  
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.2/12

DERWENT-CLASS: P85 S02 T01 T07 X22  
EPI-CODES: S02-B08; T01-J06B; T07-A05C; X22-E06;

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LS: Entry 6 of 7

File: DWPI

Oct 27, 2003

DERWENT-ACC-NO: 1996-428499

DERWENT-WEEK: 200373

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**TITLE:** Vehicle navigation appts - has path guiding unit which guides vehicle in correct path between starting and destination points based on transit position of vehicle and map information from memory

PATENT-ASSIGNEE: MATSUSHITA DENKI SANGYO KK (MATU)

PRIORITY-DATA: 1995JP-0019145 (February 7, 1995)

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## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <a href="#">JP 3460033 B2</a>	October 27, 2003		014	G01C021/00
<input type="checkbox"/> <a href="#">JP 08210864 A</a>	August 20, 1996		015	G01C021/00

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 3460033B2	February 7, 1995	1995JP-0019145	
JP 3460033B2		JP 8210864	Previous Publ.
JP 08210864A	February 7, 1995	1995JP-0019145	

INT-CL (IPC): G01 C 21/00; G08 G 1/0969; G09 B 29/10

ABSTRACTED-PUB-NO: JP 08210864A

## BASIC-ABSTRACT:

The appts has a bearing sensor (201), a transit distance sensor (202) and an absolute position detector (203) from which the direction, the transit distance and the present position of a vehicle are calculated. The information signal is given to a dead reckoning navigator (205) which determines the transit position of the vehicle using a road information and a geographic information from a memory (204). The transit locus along with the map data from the memory are displayed in a display unit (211). The starting point of the vehicle and the input operation of the destination point are given to a point setting unit (207) through an input unit (206), which sets the correct destination point based on the transit position of the vehicle.

A path planning unit (208) determines the correct path between the starting point and the destination point and the route is stored in a memory (209). Based on the route information, a path guiding unit (210) guides the vehicle to move in the correct path from the starting point to the destination point. If the vehicle goes beyond the calculated path, then the return path from the destination is to be

determined. The memory stores the return path of the vehicle and based on this information, the path guiding unit guides the vehicle to follow the return path. Thus, the vehicle is guided along the correct path.

ADVANTAGE - Shortens searching time of vehicle return path. Starts path guiding unit quickly. Resumes path guidance when power supply is switched OFF.

ABSTRACTED-PUB-NO: JP 08210864A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.2/8

DERWENT-CLASS: P85 S02 W06 X22

EPI-CODES: S02-B08; W06-A03A; W06-A04A1; W06-A04H1; X22-E06D;

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File: DWPI

Mar 20, 1996

DERWENT-ACC-NO: 1996-152783

DERWENT-WEEK: 200256

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**TITLE:** Navigation system esp. for motor vehicle with automatic route re-search on route deviation - when current position deviates from searched route, determines whether vehicle has travelled predetermined distance after re-searching, where travel guidance is based on re-searched route, or otherwise based on previously searched route

**INVENTOR:** MAEKAWA, K; NANBA, A ; NIMURA, M

**PATENT-ASSIGNEE:** AISIN AW CO LTD (AISW)

**PRIORITY-DATA:** 1994JP-0264584 (October 3, 1994), 1994JP-0247293 (September 14, 1994)

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**PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <a href="#">EP 702209 A1</a>	March 20, 1996	E	031	G01C021/20
<input type="checkbox"/> <a href="#">DE 69527121 E</a>	July 25, 2002		000	G01C021/20
<input type="checkbox"/> <a href="#">JP 08086659 A</a>	April 2, 1996		010	G01C021/00
<input type="checkbox"/> <a href="#">JP 08105754 A</a>	April 23, 1996		013	G01C021/00
<input type="checkbox"/> <a href="#">US 5757289 A</a>	May 26, 1998		000	G08G001/123
<input type="checkbox"/> <a href="#">JP 3171029 B2</a>	May 28, 2001		013	G01C021/00
<input type="checkbox"/> <a href="#">EP 702209 B1</a>	June 19, 2002	E	000	G01C021/20

**DESIGNATED-STATES:** DE FR GB IT DE FR GB IT

**CITED-DOCUMENTS:** DE 4226230; EP 583773 ; US 5303159 ; US 5311434

**APPLICATION-DATA:**

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 702209A1	September 11, 1995	1995EP-0114237	
DE 69527121E	September 11, 1995	1995DE-0627121	
DE 69527121E	September 11, 1995	1995EP-0114237	
DE 69527121E		EP 702209	Based on
JP 08086659A	September 14, 1994	1994JP-0247293	
JP 08105754A	October 3, 1994	1994JP-0264584	

US 5757289A	June 6, 1995	1995US-0466193
JP 3171029B2	October 3, 1994	1994JP-0264584
JP 3171029B2		JP 8105754 Previous Publ.
EP 702209B1	September 11, 1995	1995EP-0114237

INT-CL (IPC): G01 C 21/00; G01 C 21/20; G08 G 1/0969; G08 G 1/123; G09 B 29/10

ABSTRACTED-PUB-NO: EP 702209A

BASIC-ABSTRACT:

The navigations system has a central control section (4) with a route calculating portion which determines the current position and calculates a route to the destination. The current position is determined by a CPU on the basis of GPS information, map information and vehicle sensors in a detecting section (2). A route guidance control portion outputs route data via an input/output section (1) when requested by the user.

The control unit determines when the current position deviates from a searched route along which the guidance is being provided from a starting point to a destination, and determines whether or not the position is on a guidable i.e. map-trackable road prior to re-searching the route, when it provides guidance based on the re-searched route. If the vehicle has not travelled a predetermined distance after re-searching the route, the travel guidance remains that based on the previously searched route. The driver, after making a short deviation, may return to previous route without interruption of travel guidance by a re-searched route.

ADVANTAGE - Is capable of re-searching route using limited map data, i.e. which does not cover un-guidable minor roads, without confusing driver.

ABSTRACTED-PUB-NO: EP 702209B

EQUIVALENT-ABSTRACTS:

The navigations system has a central control section (4) with a route calculating portion which determines the current position and calculates a route to the destination. The current position is determined by a CPU on the basis of GPS information, map information and vehicle sensors in a detecting section (2). A route guidance control portion outputs route data via an input/output section (1) when requested by the user.

The control unit determines when the current position deviates from a searched route along which the guidance is being provided from a starting point to a destination, and determines whether or not the position is on a guidable i.e. map-trackable road prior to re-searching the route, when it provides guidance based on the re-searched route. If the vehicle has not travelled a predetermined distance after re-searching the route, the travel guidance remains that based on the previously searched route. The driver, after making a short deviation, may return to previous route without interruption of travel guidance by a re-searched route.

ADVANTAGE - Is capable of re-searching route using limited map data, i.e. which does not cover un-guidable minor roads, without confusing driver.

US 5757289A

The navigations system has a central control section (4) with a route calculating portion which determines the current position and calculates a route to the destination. The current position is determined by a CPU on the basis of GPS

information, map information and vehicle sensors in a detecting section (2). A route guidance control portion outputs route data via an input/output section (1) when requested by the user.

The control unit determines when the current position deviates from a searched route along which the guidance is being provided from a starting point to a destination, and determines whether or not the position is on a guidable i.e. map-trackable road prior to re-searching the route, when it provides guidance based on the re-searched route. If the vehicle has not travelled a predetermined distance after re-searching the route, the travel guidance remains that based on the previously searched route. The driver, after making a short deviation, may return to previous route without interruption of travel guidance by a re-searched route.

ADVANTAGE - Is capable of re-searching route using limited map data, i.e. which does not cover un-guidable minor roads, without confusing driver.

CHOSEN-DRAWING: Dwg.1/29

DERWENT-CLASS: S02 T01 T07 W06 X22

EPI-CODES: S02-B08; T01-J06B; T07-A05C; W06-A03A; W06-A08; X22-E06D;

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1. Document ID: JP 11213283 A

Using default format because multiple data bases are involved.

L5: Entry 1 of 7

File: JPAB

Aug 6, 1999

PUB-NO: JP411213283A

DOCUMENT-IDENTIFIER: JP 11213283 A

TITLE: NAVIGATION DEVICE

PUBN-DATE: August 6, 1999

INVENTOR-INFORMATION:

NAME

COUNTRY

MATSUMURA, KAZUMASA

INT-CL (IPC): G08 G 1/00; G01 C 21/00; G01 S 13/93; G01 S 17/93; G08 G 1/0969

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KOMC	Drawn D
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2. Document ID: EP 751376 A2

L5: Entry 2 of 7

File: EPAB

Jan 2, 1997

PUB-NO: EP000751376A2

DOCUMENT-IDENTIFIER: EP 751376 A2

TITLE: Vehicular navigation apparatus

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KOMC	Drawn D
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3. Document ID: EP 702209 A1

L5: Entry 3 of 7

File: EPAB

Mar 20, 1996

PUB-NO: EP000702209A1

DOCUMENT-IDENTIFIER: EP 702209 A1

TITLE: Vehicular navigation system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KOMC	Drawn D
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## □ 4. Document ID: JP 2001183152 A

L5: Entry 4 of 7

File: DWPI

Jul 6, 2001

DERWENT-ACC-NO: 2002-181671

DERWENT-WEEK: 200224

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TITLE: Route display method for vehicle navigation device, involves determining distance of route from starting point to destination and displaying route map with linked external data stored in compact flash memory

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Drawn
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## □ 5. Document ID: JP 2001108456 A

L5: Entry 5 of 7

File: DWPI

Apr 20, 2001

DERWENT-ACC-NO: 2001-505217

DERWENT-WEEK: 200156

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TITLE: Route planning apparatus for motor vehicles, displays route such that starting and terminus points of route are connected by lines through arbitrary relay points

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Drawn
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## □ 6. Document ID: JP 3460033 B2, JP 08210864 A

L5: Entry 6 of 7

File: DWPI

Oct 27, 2003

DERWENT-ACC-NO: 1996-428499

DERWENT-WEEK: 200373

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TITLE: Vehicle navigation appts - has path guiding unit which guides vehicle in correct path between starting and destination points based on transit position of vehicle and map information from memory

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Drawn
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## □ 7. Document ID: EP 702209 A1, DE 69527121 E, JP 08086659 A, JP 08105754 A, US 5757289 A, JP 3171029 B2, EP 702209 B1

L5: Entry 7 of 7

File: DWPI

Mar 20, 1996

DERWENT-ACC-NO: 1996-152783

DERWENT-WEEK: 200256

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TITLE: Navigation system esp. for motor vehicle with automatic route re-search on

h e b b g e e e f e c e f b e

route deviation - when current position deviates from searched route, determines whether vehicle has travelled predetermined distance after re-searching, where travel guidance is based on re-searched route, or otherwise based on previously searched route

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Search](#) | [Print](#) | [Claims](#) | [KMC](#) | [Draw De](#)

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Terms	Documents
L4 and search\$	7

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### Search Results - Record(s) 1 through 10 of 31 returned.

1. Document ID: JP 2002213972 A

Using default format because multiple data bases are involved.

L4: Entry 1 of 31

File: JPAB

Jul 31, 2002

PUB-NO: JP02002213972A  
DOCUMENT-IDENTIFIER: JP 2002213972 A  
TITLE: NAVIGATION DEVICE

PUBN-DATE: July 31, 2002

#### INVENTOR-INFORMATION:

NAME	COUNTRY
YABU, TOSHIHIDE	

INT-CL (IPC): G01 C 21/00; G08 G 1/0969; G09 B 29/10; H04 B 7/26

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Drawn D
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2. Document ID: JP 2000055688 A

L4: Entry 2 of 31

File: JPAB

Feb 25, 2000

PUB-NO: JP02000055688A  
DOCUMENT-IDENTIFIER: JP 2000055688 A  
TITLE: ON-VEHICLE NAVIGATION DEVICE

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Drawn D
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3. Document ID: JP 11271083 A

L4: Entry 3 of 31

File: JPAB

Oct 5, 1999

PUB-NO: JP411271083A  
DOCUMENT-IDENTIFIER: JP 11271083 A  
TITLE: NAVIGATION METHOD

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Drawn D
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## □ 4. Document ID: JP 11213283 A

L4: Entry 4 of 31

File: JPAB

Aug 6, 1999

PUB-NO: JP411213283A

DOCUMENT-IDENTIFIER: JP 11213283 A

TITLE: NAVIGATION DEVICE

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Drawn
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## □ 5. Document ID: EP 751376 A2

L4: Entry 5 of 31

File: EPAB

Jan 2, 1997

PUB-NO: EP000751376A2

DOCUMENT-IDENTIFIER: EP 751376 A2

TITLE: Vehicular navigation apparatus

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Drawn
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## □ 6. Document ID: EP 702209 A1

L4: Entry 6 of 31

File: EPAB

Mar 20, 1996

PUB-NO: EP000702209A1

DOCUMENT-IDENTIFIER: EP 702209 A1

TITLE: Vehicular navigation system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Drawn
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## □ 7. Document ID: JP 2002310703 A

L4: Entry 7 of 31

File: DWPI

Oct 23, 2002

DERWENT-ACC-NO: 2003-007433

DERWENT-WEEK: 200305

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TITLE: Reset announcement apparatus for navigation system, acquires geographical special feature corresponding to reset original route, corresponding to which message is produced and announced

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Drawn
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## □ 8. Document ID: EP 1380021 A1, DE 10117395 A1, WO 200282404 A1

L4: Entry 8 of 31

File: DWPI

Jan 14, 2004

DERWENT-ACC-NO: 2003-130885

DERWENT-WEEK: 200410

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**TITLE:** Operation method for a motor vehicle navigation system, calculates the distance to a decision making node and as soon as a minimum distance is reached a new decision making node is determined

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Drawn](#)

9. Document ID: EP 1130359 A2, US 6418375 B2, DE 10010608 A1, JP 2001289657 A, US 20010027376 A1, KR 2001087310 A

L4: Entry 9 of 31

File: DWPI

Sep 5, 2001

DERWENT-ACC-NO: 2002-012497

DERWENT-WEEK: 200253

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**TITLE:** Navigation with small data quantities involves comparing distance covered between way points with stored distance to output driving notices when difference below minimum value

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Drawn](#)

10. Document ID: JP 2001183152 A

L4: Entry 10 of 31

File: DWPI

Jul 6, 2001

DERWENT-ACC-NO: 2002-181671

DERWENT-WEEK: 200224

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**TITLE:** Route display method for vehicle navigation device, involves determining distance of route from starting point to destination and displaying route map with linked external data stored in compact flash memory

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Drawn](#)

[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate QACs](#)[Terms](#)[Documents](#)

L2 and ((calculat\$ or determin\$) with distance)

31

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Generate GACS				

### Search Results - Record(s) 11 through 20 of 31 returned.

11. Document ID: JP 2001108456 A

L4: Entry 11 of 31

File: DWPI

Apr 20, 2001

DERWENT-ACC-NO: 2001-505217

DERWENT-WEEK: 200156

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TITLE: Route planning apparatus for motor vehicles, displays route such that starting and terminus points of route are connected by lines through arbitrary relay points

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Drawn	De
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12. Document ID: US 6188955 B1

L4: Entry 12 of 31

File: DWPI

Feb 13, 2001

DERWENT-ACC-NO: 2001-501701

DERWENT-WEEK: 200155

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TITLE: Vehicle mounted electronic navigation device has processor to define route on common feature, when starting location and destination are within common feature, else defines route on common link or common network

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Drawn	De
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13. Document ID: JP 2000275050 A

L4: Entry 13 of 31

File: DWPI

Oct 6, 2000

DERWENT-ACC-NO: 2000-668041

DERWENT-WEEK: 200065

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TITLE: Vehicular navigation apparatus has display unit in which scrolling of map is carried out in determined scroll direction for distance lesser than specific value

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Drawn	De
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14. Document ID: JP 2000193476 A

L4: Entry 14 of 31

File: DWPI

Jul 14, 2000

DERWENT-ACC-NO: 2000-508719

DERWENT-WEEK: 200046

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TITLE: Satellite based navigation apparatus for vehicles, computes distance ratio of specific route other than destination route with respect to starting point, based on which target route is selected

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Drawn
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 15. Document ID: US 5964821 A

L4: Entry 15 of 31

File: DWPI

Oct 12, 1999

DERWENT-ACC-NO: 1999-618757

DERWENT-WEEK: 199953

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TITLE: Mapless GPS navigation system with sortable destinations for use in automotive vehicle

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Drawn
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 16. Document ID: JP 11066284 A

L4: Entry 16 of 31

File: DWPI

Mar 9, 1999

DERWENT-ACC-NO: 1999-237737

DERWENT-WEEK: 199920

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TITLE: Route display device for car navigation apparatus - has warning unit that informs variation of route condition

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Drawn
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	-------

 17. Document ID: JP 09236445 A

L4: Entry 17 of 31

File: DWPI

Sep 9, 1997

DERWENT-ACC-NO: 1997-499336

DERWENT-WEEK: 199750

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TITLE: Vehicle navigation system e.g. for motor vehicle - in which display unit displays facilities name acquired by acquisition unit when distance between current position and cross point is less than predetermined value

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Drawn D.
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18. Document ID: DE 29521357 U1

L4: Entry 18 of 31

File: DWPI

Feb 20, 1997

DERWENT-ACC-NO: 1997-134318

DERWENT-WEEK: 199714

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TITLE: Directed guiding unit for guiding vehicle to destination - has distance determining device to trigger alarm signal when calculated perpendicular distance exceeds threshold

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Drawn D.
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	----------

19. Document ID: JP 3395929 B2, JP 08304094 A, US 6070124 A

L4: Entry 19 of 31

File: DWPI

Apr 14, 2003

DERWENT-ACC-NO: 1997-055900

DERWENT-WEEK: 200328

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TITLE: Navigation appts. for moving vehicle - has direction destination mark display through which mark that shows destination of moving vehicle is generated

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Drawn D.
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20. Document ID: JP 3460033 B2, JP 08210864 A

L4: Entry 20 of 31

File: DWPI

Oct 27, 2003

DERWENT-ACC-NO: 1996-428499

DERWENT-WEEK: 200373

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TITLE: Vehicle navigation appts - has path guiding unit which guides vehicle in correct path between starting and destination points based on transit position of vehicle and map information from memory

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Drawn D.
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate GACS
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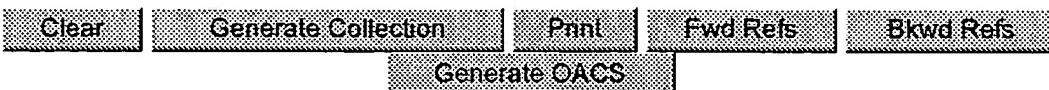
Terms	Documents
L2 and ((calculat\$ or determin\$) with distance)	31

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### Search Results - Record(s) 21 through 30 of 31 returned.

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21. Document ID: EP 702209 A1, DE 69527121 E, JP 08086659 A, JP 08105754 A, US 5757289 A, JP 3171029 B2, EP 702209 B1

Using default format because multiple data bases are involved.

L4: Entry 21 of 31

File: DWPI

Mar 20, 1996

DERWENT-ACC-NO: 1996-152783

DERWENT-WEEK: 200256

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TITLE: Navigation system esp. for motor vehicle with automatic route re-search on route deviation - when current position deviates from searched route, determines whether vehicle has travelled predetermined distance after re-searching, where travel guidance is based on re-searched route, or otherwise based on previously searched route

INVENTOR: MAEKAWA, K; NANBA, A ; NIMURA, M

PRIORITY-DATA: 1994JP-0264584 (October 3, 1994), 1994JP-0247293 (September 14, 1994)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>EP 702209 A1</u>	March 20, 1996	E	031	G01C021/20
<u>DE 69527121 E</u>	July 25, 2002		000	G01C021/20
<u>JP 08086659 A</u>	April 2, 1996		010	G01C021/00
<u>JP 08105754 A</u>	April 23, 1996		013	G01C021/00
<u>US 5757289 A</u>	May 26, 1998		000	G08G001/123
<u>JP 3171029 B2</u>	May 28, 2001		013	G01C021/00
<u>EP 702209 B1</u>	June 19, 2002	E	000	G01C021/20

INT-CL (IPC): G01 C 21/00; G01 C 21/20; G08 G 1/0969; G08 G 1/123; G09 B 29/10



22. Document ID: JP 08054253 A

L4: Entry 22 of 31

File: DWPI

Feb 27, 1996

DERWENT-ACC-NO: 1996-176336

DERWENT-WEEK: 199618

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TITLE: Motor vehicle navigation apparatus - has display mechanism which display map

for destination of driver based on present position of vehicle to guide driver completely until the reaches destination

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KWC](#) | [Drawn](#)

23. Document ID: JP 07174573 A

L4: Entry 23 of 31

File: DWPI

Jul 14, 1995

DERWENT-ACC-NO: 1995-277719

DERWENT-WEEK: 199537

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**TITLE:** Destination display appts for motor vehicle navigation system - displays sealed map of destination as vehicle progresses in its run course towards indicated destination

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KWC](#) | [Drawn](#)

24. Document ID: JP 3409377 B2, DE 4428009 A1, US 5541592 A, DE 4428009 C2

L4: Entry 24 of 31

File: DWPI

May 26, 2003

DERWENT-ACC-NO: 1995-091973

DERWENT-WEEK: 200335

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**TITLE:** Position detection system for movable body - has display unit, map memory, travelled distance detector, mode selector for simulated navigation, simulation position detector and controller

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KWC](#) | [Drawn](#)

25. Document ID: EP 629840 A1, JP 3302445 B2, US 5463554 A, EP 629840 B1, DE 69415406 E

L4: Entry 25 of 31

File: DWPI

Dec 21, 1994

DERWENT-ACC-NO: 1995-024347

DERWENT-WEEK: 200253

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**TITLE:** Vehicle navigation system providing route display to destination - incorporates automatic setting of new target transit point if travel route is changed and original target transit point is not passed

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KWC](#) | [Drawn](#)

26. Document ID: GB 2271423 A, DE 4334701 C2, DE 4334701 A1, US 5430653 A, GB 2271423 B

L4: Entry 26 of 31

File: DWPI

Apr 13, 1994

DERWENT-ACC-NO: 1994-103732

DERWENT-WEEK: 199707

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TITLE: Vehicle navigation display system - has road selector for choosing road to be taken from base point to intersection and displays route on road map

Full	Title	Citation	Front	Review	Classification	Date	Reference	.....	.....	Claims	KWIC	Drawn D
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□ 27. Document ID: DE 4327780 A1, JP 3145198 B2, US 5638279 A, DE 4327780 C2, JP 3129846 B2

L4: Entry 27 of 31

File: DWPI

Mar 3, 1994

DERWENT-ACC-NO: 1994-075864

DERWENT-WEEK: 200116

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TITLE: Vehicle navigation system with display for vehicle position w.r.t. junction - begins discrete display of position when vehicle is set distance from intersection, and ends display when system determines that crossing has been accomplished

Full	Title	Citation	Front	Review	Classification	Date	Reference	.....	.....	Claims	KWIC	Drawn D
------	-------	----------	-------	--------	----------------	------	-----------	-------	-------	--------	------	---------

□ 28. Document ID: DE 4035979 A, DE 4035979 C2, FR 2655449 A, GB 2238870 A, GB 2238870 B, US 5206811 A

L4: Entry 28 of 31

File: DWPI

Jun 6, 1991

DERWENT-ACC-NO: 1991-172523

DERWENT-WEEK: 199124

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TITLE: Navigation system for motor vehicle - uses computer with memory maps with system of destination points and data groups to display abstract information

Full	Title	Citation	Front	Review	Classification	Date	Reference	.....	.....	Claims	KWIC	Drawn D
------	-------	----------	-------	--------	----------------	------	-----------	-------	-------	--------	------	---------

□ 29. Document ID: DE 3719017 A, DE 3874115 G, EP 323485 A, EP 323485 B1, US 4984168 A, WO 8809974 A

L4: Entry 29 of 31

File: DWPI

Dec 15, 1988

DERWENT-ACC-NO: 1988-361657

DERWENT-WEEK: 198851

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TITLE: Travel route determination for land vehicle navigation - determines route

between start and destination within stored road system having two planes of different mesh density and zone size

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KINIC](#) | [Drawn D](#)

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30. Document ID: DE 3610251 A, DE 3610251 C, US 4782447 A

L4: Entry 30 of 31

File: DWPI

Oct 9, 1986

DERWENT-ACC-NO: 1986-273124

DERWENT-WEEK: 198642

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TITLE: Navigation system for road vehicles - has street map data stored in memory and accesses by processor with outputs from direction and distance sensors

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KINIC](#) | [Drawn D](#)

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Terms	Documents
L2 and ((calculat\$ or determin\$) with distance)	31

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**Clear** **Generate Collection** **Print** **Fwd Refs** **Bkwd Refs**  
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**Search Results - Record(s) 31 through 31 of 31 returned.**

□ 31. Document ID: EP 20939 A, BR 8003955 A, DE 2925656 A, DE 2925656 C

Using default format because multiple data bases are involved.

L4: Entry 31 of 31

File: DWPT

Jan 7, 1981

DERWENT-ACC-NO: 1981-A5762D

DERWENT-WEEK: 198104

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**TITLE:** Guidance system for road vehicle - uses processor in each vehicle to calculate route from movement, destination and positional data

INVENTOR: PILSAK, Q

PRIORITY-DATA: 1979DE-2925656 (June 26, 1979)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>EP 20939 A</u>	January 7, 1981	G	000	
<u>BR 8003955 A</u>	January 13, 1981		000	
<u>DE 2925656 A</u>	January 15, 1981		000	
<u>DE 2925656 C</u>	December 3, 1987		000	

INT-CL (IPC): G01C 21/14; G05D 1/12; G06F 15/50; G08G 1/09

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KiMC	Drawn
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Terms	Documents
L2 and ((calculat\$ or determin\$) with distance)	31

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File 6:NTIS 1964-2004/Aug W3

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File 8:Ei Compendex(R) 1970-2004/Aug W1

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File 34:SciSearch(R) Cited Ref Sci 1990-2004/Aug W2

(c) 2004 Inst for Sci Info

File 81:MIRA - Motor Industry Research 2001-2004/Jul

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File 94:JICST-EPlus 1985-2004/Jul W3

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File 95:TEME-Technology & Management 1989-2004/Jun W1

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File 292:GEOBASE(TM) 1980-2004/Aug B1

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Set	Items	Description
S1	50	NAVIGATION AND (EXIT? OR POI OR POINT) AND SEARCH? AND TANCE
S2	14	NAVIGATION AND (EXIT? OR POI OR POINT) AND SEARCH? AND TANCE AND PD<=030204
S3	4	NAVIGATION AND (EXIT? OR POI OR POINT) AND SEARCH? AND TANCE AND DESTINATION
S4	3	RD (unique items)
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**4/3,KWIC/1 (Item 1 from file: 8)**  
DIALOG(R)File 8:Ei Compendex(R)  
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03478820 E.I. Monthly No: EI9209110389

**Title: On performance of path planning algorithms in unknown terrains.**

Author: Rao, Nageswara, S. V.

Corporate Source: Old Dominion Univ, Norfolk, VA, USA

Source: ORSA Journal on Computing v 4 n 2 Spring 1992 p 218

Publication Year: 1992

CODEN: OJCOE3 ISSN: 0899-1499

Language: English

Abstract: We consider the problem of planning a collision-free path for a point robot R from its present position to a specified destination position through an unknown terrain, i.e., a terrain whose model is not known a...

...paper, we investigate some trade-offs in the performance of such algorithms in terms of distance traversed, number of sensor operations and computational complexity. These trade-offs accrue as a result of the details of an underlying graph search algorithm, and in this sense are independent of the other properties of the terrain. We...

...each step, and that (c) among a set of implementations that attempt to optimize the distance to the destination , the A\* implementation results in minimum number of scan operations. We also present some interesting...

Identifiers: SENSOR OPERATIONS; COLLISION FREE PATH; NAVIGATION C GRAPH SEARCH ALGORITHM

**4/3,KWIC/2 (Item 2 from file: 8)**  
DIALOG(R)File 8:Ei Compendex(R)  
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02001518 E.I. Monthly No: EI8608067887 E.I. Yearly No: EI86007250

**Title: PROFILE OF DRIVERS' MAP-READING ABILITIES.**

Author: Streeter, Lynn A.; Vitello, Diane

Corporate Source: Bell Communications Research, Morristown, NJ, USA

Source: Human Factors v 28 n 2 Apr 1986 p 223-239

Publication Year: 1986

...Abstract: varying degrees of familiarity with an area were compared with routes generated by standard graph- search procedures. A shortest-path, breadth-first route characterized half of the 'expert' routes, whereas none of the graph- search procedures matched 'intermediate' and 'novice' routes. A good predictor of whether people chose a particular...

...whether the sum of A PLUS B PLUS C (where A equals the straight-line distance from the start to the road, B equals the distance traveled on the road, and C equals the straight-line distance from the departure point on the road to the destination ) did not exceed the straight-line distance between start and destination by more than about 20%. (Edited author abstract) 15 refs.

Identifiers: MAP-READING; SURFACE NAVIGATION

**4/3,KWIC/3 (Item 1 from file: 95)**

DIALOG(R)File 95:TEME-Technology & Management

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00703978 I93068944927

**Two-dimensional robot navigation among unknown stationary polygonal obstacles**

(Orientierung eines zweidimensionalen Roboters zwischen unbekannten, stationaeren polygonalen Hindernissen)

Foux, G; Heymann, M; Bruckstein, A

Dept. of Comput. Sci., Technion-Israel Inst. of Technol., Haifa, Israel

IEEE Transactions on Robotics and Automation, v9, n1, pp96-102, 1993

Document type: journal article Language: English

Record type: Abstract

ISSN: 1042-296X

**Two-dimensional robot navigation among unknown stationary polygonal obstacles**

**ABSTRACT:**

...all of which are initially unknown to the robot. The environment is learned during the navigation process by use of a laser range-finding device, and new knowledge is integrated with...

...a new set of expanded polygonal obstacles, allowing the robot to be treated as a point , and the navigation problem is reduced to point navigation among unknown polygonal obstacles. A navigation graph is built from the transformed obstacles and used to search for a piecewise linear path to the destination . The algorithm is proved to converge to the desired destination in a finite number of steps provided a path to the destination exists.

...DESCRIPTORS: ARTIFICIAL INTELLIGENCE; ORIENTATION; DISTANCE MEASUREMENT; LASER APPLICATIONS; CURVES...

IDENTIFIERS: OBSTACLE AVOIDANCE; UNKNOWN STATIONARY POLYGONA LASER RANGE FINDING DEVICE; NAVIGATION GRAPH; PIECEWISE LINEAR zweidimensionaler Roboter; Navigation

?

**4/7/2 (Item 2 from file: 8)**

DIALOG(R)File 8:Ei Compendex(R)

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02001518 E.I. Monthly No: EI8608067887 E.I. Yearly No: EI86007250

**Title: PROFILE OF DRIVERS' MAP-READING ABILITIES.**

Author: Streeter, Lynn A.; Vitello, Diane

Corporate Source: Bell Communications Research, Morristown, NJ, USA

Source: Human Factors v 28 n 2 Apr 1986 p 223-239

Publication Year: 1986

CODEN: HUFAA6 ISSN: 0018-7208

Language: ENGLISH

Document Type: JA; (Journal Article) Treatment: A; (Applications); X; (Experimental)

Journal Announcement: 8608

Abstract: Self-described good navigators like and use maps, and they differentially value landmarks, such as rivers, railroads, and houses, whereas poor navigators tend not to use maps, prefer verbal instructions, and tend to rate all landmarks as equally valuable for route finding.

Routes selected by people with varying degrees of familiarity with an area were compared with routes generated by standard graph-search procedures. A shortest-path, breadth-first route characterized half of the 'expert' routes, whereas none of the graph-search procedures matched 'intermediate' and 'novice' routes. A good predictor of whether people chose a particular road was whether the sum of A PLUS B PLUS C (where A equals the straight-line distance from the start to the road, B equals the distance traveled on the road, and C equals the straight-line distance from the departure point on the road to the destination) did not exceed the straight-line distance between start and destination by more than about 20%. (Edited author abstract) 15 refs.

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